

CONVERSION TO BULK CARRIER
WITHOUT BRIDGE

LLOYD'S REGISTER OF SHIPPING

SURVEYS FOR FREEBOARD

(COMPUTATION FOR STEAMER, SAILING SHIP, TANKER)

For LONDON OFFICE ONLY

Received

Index No.

Govt. Copy

Owners C11

Ship's Name CLYDEFIELD	Official Number	Nationality and Port of Registry	Gross Tonnage	Date of Build	Port of Survey
Moulded Dimensions: Length <u>516'</u> Breadth <u>70'</u> Depth <u>37.765'</u> Freeboard Length <u>516'</u> Moulded displacement at moulded draught = 85 per cent. of moulded depth (excluding bossing) _____ tons Coefficient of fineness for use with Tables <u>749</u>					Date of Survey _____ Surveyor's Signature _____ Particulars of Classification _____

DEPTH FOR FREEBOARD (D). Moulded depth Stringer plate Wood Sheathing on exposed deck $T \left(\frac{L-S}{L} \right) =$ Depth for Freeboard (D) = <u>37.84</u>	DEPTH CORRECTION. (a) Where D is greater than Table depth (D-Table depth) R = <u>+10.32</u> (b) Where D is less than Table depth (if allowed) (Table depth-D) R = _____ If restricted by superstructures	ROUND OF BEAM CORRECTION. Moulded Breadth (B) _____ Standard Round of Beam = $\frac{B \times 12}{50} =$ _____ Ship's Round of Beam _____ Difference _____ Restricted to _____ Correction = $\frac{\text{Diff}^e}{4} \times \left(1 - \frac{S_i}{L} \right) = \frac{20}{4} \times .624 = -1.03$
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DEDUCTION FOR SUPERSTRUCTURES.

	Mean Covered Length (S)	Equivalent Enclosed Length (S _i)	Height	Height Correction	Effective Length (E)
Poop enclosed	<u>128.83</u>	<u>128.83</u>			<u>128.83</u>
" overhang					
R.Q.D. enclosed					
" overhang					
Bridge enclosed					
" overhang aft					
" overhang forward					
F'cle enclosed	<u>66.00</u>	<u>66.00</u>			<u>66.00</u>
" overhang					
Trunk aft					
" forward					
Tonnage opening aft					
" " forward					
Total	<u>194.83</u>	<u>194.83</u>			<u>194.83</u>

Standard Height of Superstructure 7.50'
 " " R.Q.D. ✓
 Deduction for complete superstructure 42.00
 Percentage covered $\frac{S}{L} =$ 37.60
 " " ✓
 " " ✓
 Percentage from Table, Line A. 21.46
 (corrected for absence of forecastle (if required))
 Percentage from Table, Line B. _____
 (corrected for absence of forecastle (if required))
 Interpolation for bridge less than .2L (if required)
 Deduction = $42 \times .2146 = -9.01$

SHEER CORRECTION.

Station	Standard Ordinate	S	M	Product	Actual Ordinate	Effective Ordinate	S	M	Product
A.P.	<u>61.60</u>	1			<u>61.28</u>	<u>67.28</u>	1		<u>67.28</u>
$\frac{1}{4}L$ from A.P.		4			<u>20.06</u>	<u>25.63</u>	4		<u>102.52</u>
$\frac{3}{4}L$ "		2				<u>0</u>	2		
Amidships	<u>0</u>	4		<u>0</u>	<u>0</u>	<u>0</u>	4		<u>0</u>
$\frac{3}{4}L$ from F.P.		2					2		
$\frac{1}{4}L$ "		4			<u>49.32</u>		4		<u>197.28</u>
F.P.		1			<u>120.00</u>		1		<u>120.00</u>
Total				<u>554.39</u>					<u>465.37</u>

Mean actual sheer aft = _____
 Mean standard sheer aft = _____

Mean actual sheer forward = _____
 Mean standard sheer forward = _____

Length of enclosed superstructure forward of amidships = _____
 " " aft of " = _____

Correction = $\frac{\text{Difference between sums of products}}{18} \left(.75 - \frac{S}{2L} \right) = \frac{89.02}{18} (.75 - .1880) = + 2.78$
 If limited on account of midship superstructure. _____
 If limited to maximum allowance of $1\frac{1}{2}$ ins. per 100ft.

Deduction for Tropical Freeboard. Addition for Winter and Winter North Atlantic Freeboard. Depth to Freeboard Deck = <u>37.84</u> Summer freeboard = <u>9.63</u> Moulded draught (d) = <u>28.21</u> Keel allowance = _____ Extreme draught = _____ Deduction for Tropical freeboard and addition for = _____ Winter freeboard = $\frac{d}{4}$ inches = _____ Addition for Winter North Atlantic Freeboard (if required) = _____	Deduction for Fresh Water. Displacement in salt water at summer load water line $\Delta =$ _____ Tons per inch immersion at summer load water line $T =$ _____ Deduction = $\frac{\Delta}{40 T}$ inches = _____	TABULAR FREEBOARD corrected for Flush Deck (if required) Correction for coefficient <u>1.429</u> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>Depth Correction</td> <td><u>10.32</u></td> <td></td> </tr> <tr> <td>Deduction for superstructures</td> <td><u>-</u></td> <td><u>9.01</u></td> </tr> <tr> <td>Sheer correction</td> <td><u>2.78</u></td> <td><u>-</u></td> </tr> <tr> <td>Round of Beam correction</td> <td><u>-</u></td> <td><u>.03</u></td> </tr> <tr> <td>Correction for Thickness of Deck amidships</td> <td><u>-</u></td> <td><u>-</u></td> </tr> <tr> <td>Other corrections, scantlings, etc.</td> <td><u>-</u></td> <td><u>-</u></td> </tr> <tr> <td></td> <td><u>13.10</u></td> <td><u>9.04</u></td> </tr> </tbody> </table> Summer Freeboard = <u>115.43</u>		+	-	Depth Correction	<u>10.32</u>		Deduction for superstructures	<u>-</u>	<u>9.01</u>	Sheer correction	<u>2.78</u>	<u>-</u>	Round of Beam correction	<u>-</u>	<u>.03</u>	Correction for Thickness of Deck amidships	<u>-</u>	<u>-</u>	Other corrections, scantlings, etc.	<u>-</u>	<u>-</u>		<u>13.10</u>	<u>9.04</u>
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SUMMER FREEBOARD amidships from Centre of Disc to top of Deck Line, Wood, Steel, Deck :-

Tropical Fresh Water Line above Centre of Disc	Tropical Fresh Water Freeboard	...
Fresh Water Line	"	"	Fresh Water	"
Tropical Line	"	"	Tropical	"
Winter Line	below	"	Winter	"
Winter North Atlantic Line	"	"	Winter North Atlantic	"

A new form should be prepared if any alterations that affect the freeboard have been made. If no such alterations have been made, the Surveyor should endorse the form on this side with his signature and the date.

Sheer aft Excess height poop = 6"
 A.P. $61.28 + 6 = 67.28$ "
 4/6 $20.06 + (6 \times \frac{28.52}{124.5}) = 20.63$

$$\frac{4}{6} = \frac{576}{8} = \frac{124.5}{38.5}$$

Trade of ship

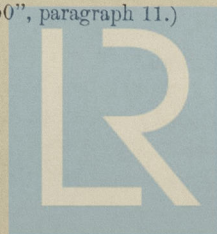
Names of sister ships

Builder's name and yard number

Owners

Fee £ : :

List of plans forwarded for reference. (See "Instructions to Surveyors, Part 4, 1950", paragraph 11.)



458.8
 6.5
 465.37
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